Candidate's Name: ……

Signature: ……

Random No.						Personal No		

(Do not write your school/Center Name or Number anywhere on this paper)

545/1
CHEMISTRY
Paper 1
JULY/AUGUST 2024
2 Hours

MUKONO SENIOR TEACHERS' EXAMINATIONS BOARD

Uganda Certificate of Lower Secondary Education

CHEMISTRY

Paper 1

2 Hours

INSTRUCTIONS TO CANDIDATES:

- ✓ *This paper consists of* **two** *sections;* **A** *and* **B**. *It has* **six** *examination items.*
- ✓ *Section* **A** *has* **two compulsory** *items.*
- ✓ *Section* **B** *has* **two Parts**; **I** and **II**. *Answer* **one** *item from* **each** *part.*
- ✓ *Answer four items in all.*
- ✓ *Responses to Section* **A must** *be written in the spaces provided while those of Section* **B must** *be written on the response booklet(s) provided.*
- ✓ *Any additional item(s) answered will* **not** *be scored.*

FOR EXAMINERS' USE ONLY				
Scores of Basis of assessment.	**A**	**B**	**C**	**D**
ITEM 1.				
ITEM 2.				
ITEM 3 or 4.				
ITEM 5 or 6.				

SECTION A:

Answer **all** *the items from this section.*

Item 1.

After slashing their compound, Juma and Ibrahim got some muscle pain and headache. Both reported their situations to their mother. The mother gave Juma the only two remaining Aspirin tablets in her handbag. She thought otherwise and she prepared an extract from some aloe Vera leaves which she gave to Ibrahim since she had no money to visit the nearby health centre. She was once told by a friend that this can work.
After a few hours, Juma got relieved however Ibrahim's situation had not changed at all. The mother is concerned and has approached you to help her understand how Juma got relieved.

Task;

As a chemistry learner, write a message you will share with their mother. In your message include;

(a) Category of the product.

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(b) Function of the product.

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(c) Advise her on the challenges associated when one uses the product.

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Item 2.

Many farmers in Buziga village use ropes to graze their goats in fields. Mukisa, a renowned trader in the area is planning to open up a stall that sells all sorts of ropes without affecting environment. He wants to make good and strong ropes for his clients. Nylon, sisal and banana fibres are some of the different materials proposed to him. However, Mukisa knows that choosing quality ropes depends on nature of the materials used.

Task: As a learner of chemistry,

(a) Write down what would be your contribution on;

(i) Categories of the materials proposed to him.

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(ii) Suitability of the material.

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(b) Advise him on the choice of the material.

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SECTION B.

PART I

Attempt one item from this part.

3. A women's group in one parish in Uganda is planning to manufacture a Soapy detergent as a new project to increase their annual gross sales. The chairperson is proposing to set up a soapy detergent production unit with minimal environmental concerns. Some of the representatives in the group are however protesting the establishment of the unit claiming that it will not be beneficial to their community.

As a result the Parish development officer has organised a sensitisation workshop and has invited the women.

Task;

a) As a learner of chemistry, write a brief message that you will deliver before the plenary if invited.

4. Of recent, there has been country wide complaints on the high fuel prices. These include the high costs on petrol, diesel and paraffin. As a result of, the government has agreed with some foreign investors to set up an oil refinery plant in Busamata village, Hoima district. The region is rich of oil deposits.
The local residents are however protesting the establishment of the plant in their area, claiming that the plant will cause serious environmental impact in their area. Some are claiming that there is no importance of the plant to them

The locals also do not know the refinery process will be done.

A radio talk show has been organised on one of the local's radio stations by the District Development Officers (DDO) and the local council representative to sensitize the locals on the issues at land.

Task;

a) Using the knowledge of chemistry you have attained, prepare a presentation you would make upon invitation on the talk show.

SECTION B

PART II

Attempt one item from this part

5. Butayi village in Luuka district is developing at a fast pace. There are many shops, primary schools and markets that have been put in place. Many swamps and forests are now filled with buildings. Sand mining is the main activity among most of the youths in the region. Recently the wells are drying up and yet the little water that is available is not fresh. The few that practice crop husbandry also say that seasons have changed and this has caused famine in the area These happenings have left many wondering why

A sensitization workshop is to be organized by the LC3 chairman through sub county Environmental Management Committee.

Task;

a) As a learner of chemistry, present your message upon invitation in the workshop.

6.Kiyoola village is one of the rocky area in kabale district where stone quarrying is a primary source of livelihood in most of the families. The rugged terrains, rich in stone deposit, provided ample opportunity for the villagers to earn a living by extracting and selling stones. However, the extensive quarrying activities have led to seasonal change and water shortage, air quality and health issue and water contaminations.

Recognizing the severity of these issue, the government of Uganda has stepped in to provide assistance and create awareness program to the residents.

Task;
As a chemistry student, prepare a simple write up that officials should base on when

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